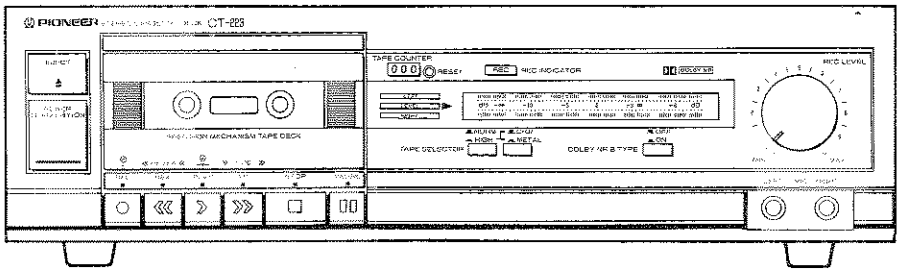
MASTER

Operating Instructions

STEREO CASSETTE DECK

CT-223



Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

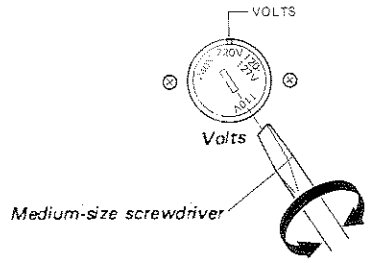
WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. European, U.K., and Australian models are not provided with this switch.
Main voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.

The line voltage selector switch is on the rear panel. Before your model is shipped from the factory, this switch is set to the power requirements of the destination. Check that it is set properly before plugging the power cord into the AC outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ,adjust the selector switch as follows.

1. Disconnect the power cord.
2. Use a medium-size screwdriver.
3. Insert the screwdriver into the groove on the voltage selector, and adjust so that the tip of the arrow points to the voltage value of your area.



"This product is manufactured to comply with the radio interference requirements of EEC Directive 76/889/EEC and 82/499/EEC."

PIONEER®
The future of sound and vision.

IMPORTANT 1

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT 2

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off.

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
Equipment sold in the U.K. is not supplied with a power plug.

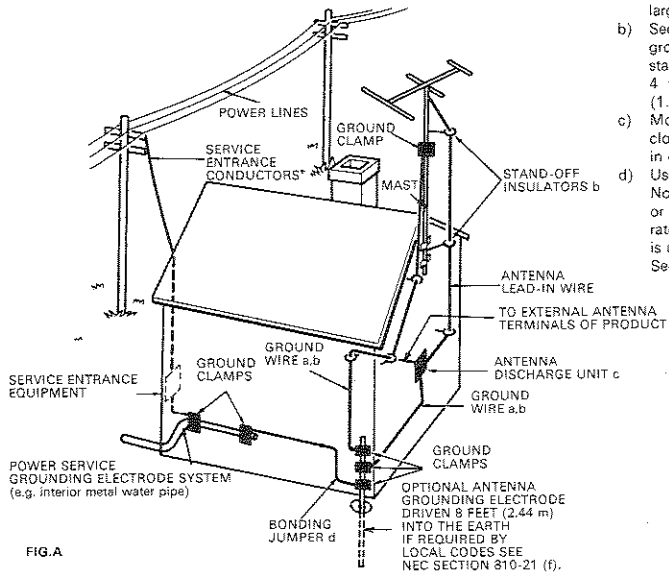
SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.
RETAIN INSTRUCTIONS — The operating instructions should be retained for future reference.
HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.
FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.
WATER AND MOISTURE — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
LOCATION — The appliance should be installed in a stable location.
WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.
VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.
POWER LINES — An outdoor antenna should be located away from power lines.
NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
DAMAGE REQUIRING SERVICE — The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped; or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.


POWER LINES
GROUND CLAMP
SERVICE ENTRANCE CONDUCTORS
MAST
STAND-OFF INSULATORS b
ANTENNA LEAD-IN WIRE
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
GROUND WIRE a,b
GROUND CLAMPS
ANTENNA DISCHARGE UNIT c
SERVICE ENTRANCE EQUIPMENT
GROUND WIRE a,b
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (e.g. interior metal water pipe)
OPTIONAL ANTENNA GROUNDING ELECTRODE DRIVEN 8 FEET (2.44 m) INTO THE EARTH IF REQUIRED BY LOCAL CODES SEE NEC SECTION 810-21 (f).
BONDING JUMPER d
FIG.A

a) Use No. 10 AWG (5.3 mm^2) copper, No. 8 AWG (8.4 mm^2) aluminum, No. 17 AWG (1.0 mm^2) copperclad steel, bronze wire, or larger as ground wire.
b) Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
c) Mount antenna discharge unit as closely as possible to where lead-in enters house.
d) Use jumper wire not smaller than No.6 AWG (13.3 mm^2) copper, or the equivalent, when a separate antenna-grounding electrode is used.
See NEC Section 810-21 (j).

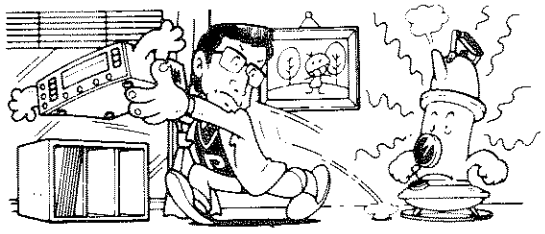
CONTENTS

Installation 3
Connections 4
Front Panel Facilities 5
Operations 6
How to Handle Cassette Tapes 8
Maintenance 9
Troubleshooting 10
Specifications 12

INSTALLATION

When installing the deck, avoid locations with high temperature or humidity, and be sure that the location is well ventilated.

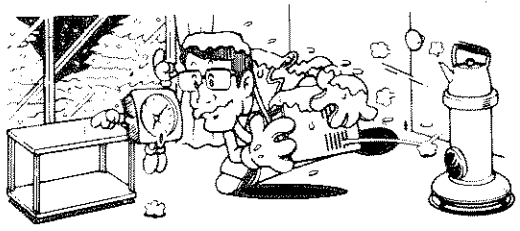
Do not install the deck in locations subject to direct sunlight, or next to a space heater or other heating device, since the finish or internal parts may be affected adversely. Malfunctions may also result if the unit is installed in a humid or dusty location. Also avoid installations next to kitchen counters or other places subject to oily smoke or heat.



- If you place the unit directly on top of an amplifier, it may pick up humming or other noise. Also, if the amplifier generates a large amount of heat, the unit may break down.
- If you place the unit near a television set, it may pick up noise which may be recorded as a whistling tone on the tape. In such a case, either install the unit away from the television set or switch OFF the television set.

DEW CONDENSATION

When the unit is moved from a cold to a warm room, or the temperature changes quickly, condensation will form on the mechanical parts and this will affect the performance of the tape. In such cases, leave the unit in a warmer atmosphere for about one hour or change the room temperature gradually.



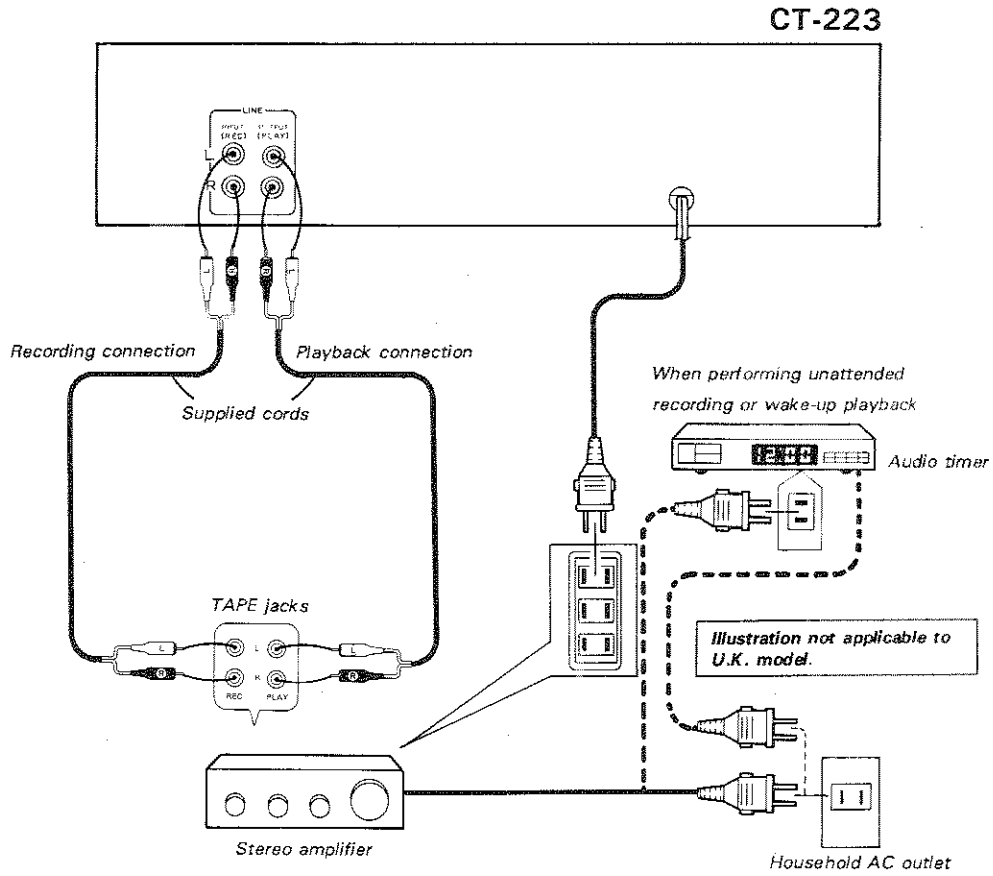
NOTE:

When installing the tape deck, do not place a cloth over the top or block the ventilation openings in any other way.

CONNECTIONS

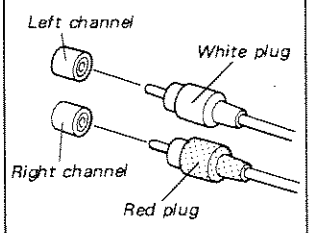
CONNECTING THE CASSETTE TAPE DECK TO AN AMPLIFIER

- Read through the operating instructions of the stereo components which you intend to connect to this unit.
- Turn on the power only after all the connections are completed.
- The top jacks are for the left (L) channel; the bottom jacks are for the right (R) channel.
- Make sure that the plugs are inserted securely. Improper connection may generate noise.
- Avoid placing the unit directly on top of an amplifier since this may cause humming or other noise.
- Avoid installing the unit too close to a TV set since humming may occur during recording.

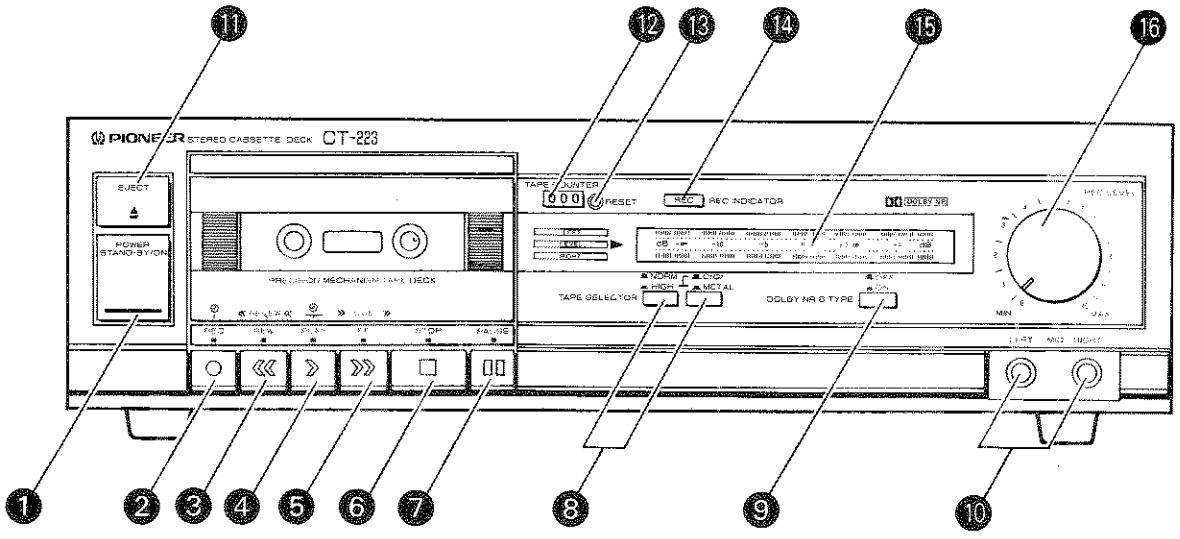


Connecting the input/output cords

Connect the plugs properly.



FRONT PANEL FACILITIES



❶ POWER (STANDBY/ON) switch

NOTE:
The POWER switch turns off the transformer secondary circuits only, and so even at the STANDBY position, the unit is connected to the mains as long as the power cord is connected to a power outlet.

❷ Recording (REC) button (○)

To start recording. The unit will not enter the recordign mode if a cassette with the erasure prevention tabs removed is loaded.

❸ Rewind (REW) button (⋘)

To rewind the tape in the direction of the arrows.

❹ PLAY button (⋗)

To start playback.

❺ Fast forward (FF) button (⋙)

To fast forward the tape in the direction of the arrows.

❻ STOP button (□)

To stop all operations.

❼ PAUSE button (▯▯)

To stop tape transport momentarily during recording or playback. Press it again to resume operation. This button does not work during fast-forward and rewind.

❽ TAPE SELECTOR switches

These switches must be set in accordance with the tape used to select the proper recording bias and playback equalization.

Normal tape: Release the left switch (▬ NORM).
CrO_2 tape: Depress the left switch (▬ HIGH) and release the right switch (▬ CrO_2).
Metal tape: Depress both the right and left switches (▬ HIGH, ▬ METAL).

❾ DOLBY NR* switch

Press this switch to ON (▬) for recording with the built-in Dolby Noise Reduction system and for playback of tapes which have been recorded using the Dolby Noise Reduction system.
For other tapes, do not press this switch.

*

- *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.*
- *"DOLBY" and the double-D symbol ▯▯ are trademarks of Dolby Laboratories Licensing Corporation.*

❿ MIC jacks

⓫ EJECT button (⏏)

Press to open the cassette door after you have pressed the STOP (□) button and the tape has stopped.

NOTE:
If the power is turned off while the tape is moving, the cassette door may remain locked. In this case, turn the power on before pressing the EJECT button.

⓬ TAPE COUNTER

⓭ Tape counter RESET button

Resets the tape counter reading to "000".

⓮ REC INDICATOR

This lights in the recording mode.

⓯ Level meter

⓰ REC LEVEL control

OPERATIONS

TAPE PLAYBACK

1. **Press the POWER switch ❶ to ON.**
2. **Press the EJECT (⏏) button ⓫, and insert a pre-recorded tape.**
3. **Set the TAPE SELECTOR switches ❽ to the position that corresponds to the type of tape being used. (For details, refer to TAPE SELECTOR switches.) (see page 5)**
4. **Set the DOLBY NR switch ❾ to ON when playing back a tape which has been recorded using the DOLBY NR system. (For details, refer to DOLBY NR switch.)**
5. **Press the PLAY (▷) button ❹.**
6. **Adjust the VOLUME control on the stereo amplifier.**
7. **Press the STOP (□) button ❻ to stop the tape playback.**

Press the PAUSE (▯▯) button ❼ for a temporary stop. Release this button to allow the tape to continue running.

RECORDING

1. **Press the POWER switch ❶ to ON.**
2. **Press the EJECT (⏏) button ⓫, and load the cassette tape to be recorded. Check that the tape is wound onto the left reel and load securely.**
3. **Set the TAPE SELECTOR switches ❽ to the position that corresponds to the type of tape being used.**
4. **Set the DOLBY NR switch ❾ to ON when recording a tape using the DOLBY NR system.**
5. **Operate the program source (tuner, turntable, etc.) When you use the microphone and plug in, the input signals from the LINE INPUT terminals will be automatically cut off.**
6. **Press the PAUSE (▯▯) button ❼ and then the recording (REC ○) button ❷ to the recording standby mode.**

The recording (REC ○) button ❷ does not work when a cassette tape is not loaded or when the erasure prevention tabs of a loaded cassette tape have been broken off.

NOTE:
When the microphone plug is inserted, the LINE INPUT signal is out the microphone given priority. Always unplug microphone when not in use.

7. **Adjust the recording level. (For details, refer to SETTING THE RECORDING LEVEL.)**
8. **Press the PAUSE (▯▯) button ❼ to start recording.**
9. **Press the STOP (□) button ❻ to stop recording.**

Press the PAUSE (▯▯) button ❼ for a temporary stop. Release this button to allow the tape to continue running.

SETTING THE RECORDING LEVEL

When adjusting the recording level, observe the reading on the level meter and adjust the REC LEVEL control ⓰ appropriately. When turned clockwise, the recording level is increased and the level meter reading increases accordingly. When turned counterclockwise, the level is reduced. If the recording level is too high, the distortion in the recording increases; when if the level is too low, tape noise increases and the sound volume is low.

Using normal tapes (NORM) or chrome tapes (CrO_2)
Adjust the control so that "+3 dB" lights up from time to time with peak input signals.
Using metal tapes (METAL)
Adjust the controls so that "+6 dB" lights up from time to time with peak input signals.

NOTE:
The ▯▯ mark on the meter scale indicates the reference level for the DOLBY NR system.

CUE and REIVEW

When the FF (▷▷) button ❺ or REW (◁◁) button ❸ is pushed during playback, the playback sound can be monitored through the speaker as the tape is sent forward [backward]. This function is convenient to find the start of a program. When you wish to stop the CUE or REVIEW operation, push the STOP (□) button ❻.

- Do not make switching directly from CUE to REVIEW or vice versa: otherwise abnormal operation might result.
- Reduce the volume level of the stereo amplifier before performing the CUE or REVIEW operation. If the volume is too high, the tweeters in the speaker system may be damaged.
- To switch from playback mode to FF (▷▷) button ❺ or REW (◁◁) button ❸ operation, first push the STOP (□) button ❻ and then the FF (▷▷) button ❺ or REW (◁◁) button ❸.

AUTO—STOP MECHANISM

When the tape is fully wound onto one of the reels during recording, playback, fast forwarding or rewinding, the auto-stop mechanism is activated without the STOP (□) button ❻ having to be pushed and the tape will automatically stop.

RECORDING AND PLAYBACK USING AN AUDIO TIMER

Procedures may differ somewhat depending on the audio timer used. Be sure to read the operating instructions for the timer closely in conjunction with the instructions given here.

[UNATTENDED RECORDING]

1. Set the POWER switch of the components to ON and turn down the volume control on the stereo amplifier.
2. Press the EJECT (⏏) button ⓫, and load the cassette tape to be recorded.
3. Set the DOLBY NR switch ❾ and TAPE SELECTOR switches ❽ position in accordance with the type of tape being used.
4. Tune in the station whose program is to be recorded.
5. First press the PAUSE (▯▯) button ❼ and then the REC (○) button ❷ to set the deck to the recording standby mode.
6. Adjust the recording level with the REC LEVEL control ⓰.
7. Set the time on the audio timer so that the power comes on at the desired time. With this operation the power to the connected audio components is turned off.
8. Release the PAUSE (▯▯) button ❼. At the preset time, the power is switched on and recording starts automatically.

[WAKE-UP PLAYBACK]

1. Set the POWER switch of the components to ON.
2. Load the tape which is to be played back.
3. Set the DOLBY NR switch ❾ and TAPE SELECTOR switches ❽ correctly.
4. Press the PLAY (▷) button ❹ and set the volume control on the stereo amplifier to the level desired for timer playback.
5. Rewind the tape to the position where playback is to start.
6. Set the time on the audio timer so that the power comes on at the desired time. With this operation the power to the audio components is turned off.
7. Press the PLAY (▷) button ❹. At the preset time, the power is switched on and the playback starts automatically.

HOW TO HANDLE CASSETTE TAPES

CHECK CASSETTE BEFORE USE

Bear in mind the following points before loading cassette tapes.

Is the tape loose, or is some of the tape outside the cassette?

If some of the tape is projecting outside the cassette shell or if it is loose, it may not enter between the capstan and pinch roller. This will prevent the tape from being supplied or damage the tape itself. In cases like these, insert a pencil into the reel hole and take up the slack (Fig. A.).

Some cassette tapes come with a plastic or thick paper stopper which prevents tape slack. Remove this stopper when loading the tape and replace it after having used the cassette.

What are the accidental erasure prevention tabs for?

A cassette is provided with these tabs so that important or otherwise valuable recordings will not be erased accidentally.

When the tab (Fig. B) on the cassette shell is broken off with the tip of a screwdriver, it will not be possible to activate the recording function even by pressing the recording (REC) button, so valuable recordings will not be erased in error. To re-record a cassette on which tabs have been broken off, simply stick a piece of doubled adhesive tape over the tab areas, as shown in Fig. C.

NOTE:

- *The accidental erasure prevention tabs are located at the top left on both sides A and B (1 or 2), so that material on each side can be prevented from being erased in error.*
- *When breaking off the tab on the cassette shell, do not use a magnetized screwdriver.*

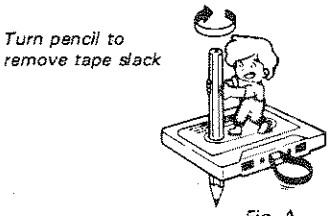


Fig. A

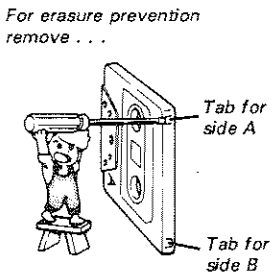


Fig. B

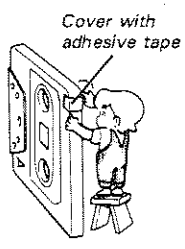


Fig. C

TIPS ON USING CASSETTE TAPES

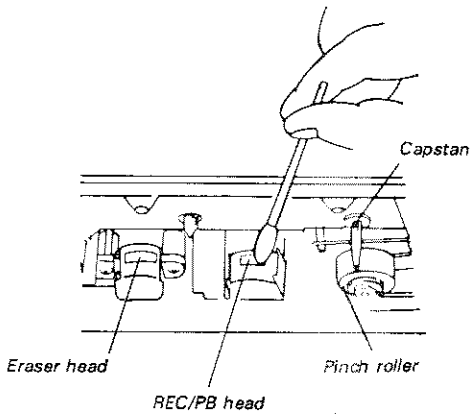
- Leader tape (which does not allow sound to be recorded on it) is provided at the beginning of a cassette tape. Start recording after allowing the tape to run for about 5 seconds so that the leader tape clears the recording head.
- Do not leave a cassette tape exposed to the environment. Store the cassette in its case so that dust and dirt do not adhere to the tape after use, and so that the tape is prevented from becoming slack. Choose a location which is not exposed to the effects of magnetism, dust, dirt and oil for storing the tapes.
- Because C-120 tapes are so thin, they easily jam in the pinch roller and capstan, and they are susceptible to other trouble such as irregular winding. Try not to use them with this unit.
- Do not use FeCr tapes with this unit.

MAINTENANCE

CLEANING THE HEADS, PINCH ROLLER AND CAPSTAN

The heads, pinch roller and capstan are parts which are liable to get dirty quite easily. In particular, if the heads are dirty, the high-frequency components are not reproduced and the stereo balance is impaired, resulting in a deterioration in the playback sound. It is therefore recommended that the head section be cleaned regularly.

1. Depress the EJECT (⏏) button ⓫ and open the cassette door.
2. Dip the cleaning swab into the cleaning fluid and use it to wipe the heads, capstan and pinch roller.



NOTE:
Do not load a tape after cleaning the head section until the cleaning fluid has completely dried (this takes two or three minutes).

DEMAGNETIZING THE HEAD

After using the cassette deck over a period of time, the head will become magnetized. The same effect is also caused by bringing a screwdriver, magnet or other magnetized object too close to the head. This causes loss of high-frequency sound during recording and playback, and is also a cause of interference noise. The heads should be regularly demagnetized with a head demagnetizer (eraser) which can be purchased at dealer shops.

When demagnetizing the head, be sure the cassette deck's POWER switch ❶ is in the STANDBY position. For detailed instructions, consult the operating manual for your head demagnetizer (eraser).

CLEANING THE FRONT PANEL SECTION

Wipe the front panel and the cassette door when dusty or greasy with a soft cloth containing a small amount of ordinary liquid soap. Then, wipe dry with a cloth. Never use volatile spirits like thinners, benzine or alcohol because they will damage the panel's finish.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used.
If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Possible cause	Remedy
Cassette door does not open.	• Tape mechanism was not stopped. • Power was switched off during tape run.	• Press stop (□) button. • Switch power on again, and then press stop (□) button.
Cassette door does not close.	Cassette tape has not been loaded properly.	Load the tape again.
No power even with POWER switch at ON.	• Disconnected power cord. • Power cord is connected to switched auxiliary outlet on a stereo component whose power is OFF.	• Connect properly to a power outlet. • Turn on the power of that component.
Tape doesn't run.	• Tape is wound to its end. • Cassette tape not loaded properly. • Slack tape. • The deck is in the pause mode.	• Rewind tape or change tape direction. • Reload tape. • Take up slack using pencil (see page 8). • Press the pause (▯▯) button.
No sound.	• Stereo amplifier function switch is not set to TAPE. • Stereo amplifier volume control is at minimum position. • Unrecorded tape has been loaded. • Disconnected or improper stereo amplifier connection. • Dirty heads.	• Set it to TAPE. • Turn up the volume. • Use a recorded tape. • Check all connections (see page 4). • Clean the heads (see page 9).
No recording.	• Cassette tape accidental erasure prevention tab broken off. • Disconnected or improper stereo amplifier connection. • Dirty heads. • REC LEVEL control set too low (no indication of the level meter during recording).	• Replace tape or cover tab hole with adhesive tape (see page 8). • Check all connections (see page 4). • Clean the heads (see page 9). • Adjust the REC LEVEL control as indicated on page 6 and record.
Previous sound remains when recording anew.	Dirty heads.	Clean heads (see page 9).
No treble sound.	• A tape which was not recorded with the Dolby NR system is being played back with DOLBY NR ON. • Dirty heads.	• Set DOLBY NR switch to proper position. • Clean heads (see page 9).

Symptom	Trouble	Remedy
Boosted treble.	A tape which was recorded with the DOLBY NR system is being played back with DOLBY NR OFF.	Set DOLBY NR switches to proper position.
Distorted sound.	• Distortion in recorded tape itself. • Recording level is too high. • Dirty heads.	• Try replacing tape. • Turn down recording level and record (see page 6). • Clean heads (see page 9).
Unstable or intermittent sound.	• Dirty heads, pinch roller and capstan. • Cassette tape is not wound up uniformly.	• Clean heads (see page 9). • Fast forward or rewind tape to wind up tape again.
High noise level.	• Tape itself has high noise level. • Connecting cord has been connected improperly. • Unit has been placed near TV set. • Recording level is too low. • Dirty heads. • Heads are magnetized.	• Replace cassette tape. • Inspect input and output connections; connect cords properly. • Move the deck away from the TV set or turn the TV power off. • Turn up recording level and record (see page 6). • Clean heads (see page 9). • Demagnetize them with head eraser (see page 9).

SPECIFICATIONS

Systems . . . . . 4 track, 2-channel stereo
Heads . . . . . .
"Hard Permalloy" recording/playback head × 1
"Ferrite" erasing head × 1
Motor . . . . . DC servo motor × 1
Wow and Flutter . . . . . No more than 0.07% (WRMS)
±0.19% (DIN)
Fast winding Time . . . . . Approximately 90 seconds
(C-60 tape)
Frequency Response (±6 dB)
−20 dB recording:
Normal tape . . . . . 30 to 14,000 Hz
Chrome tape . . . . . 30 to 15,000 Hz
Metal tape . . . . . 30 to 15,000 Hz
Signal-to-Noise Ratio
Dolby NR OFF . . . . . More than 57 dB
Noise Reduction Effect
Dolby NR B type ON . . . More than 10 dB (at 5 kHz)
Harmonic Distortion . . . . . No more than 1.5% (0 dB)
Input (Sensitivity)
MIC (L, R) . . . . . 0.3 mV, 6 mm diam. jack
(Source impedance 600Ω)
LINE (INPUT) . . . . . 50 mV (Input impedance 68 kΩ)
Output (Reference level)
LINE (OUTPUT) . . . 316 mV (Output impedance 4 kΩ)

Subfunctions

- DOLBY NR B system
- 3-position tape selector (NORM/CrO_2/METAL)
- Fully-automatic stop function
- Cue and Review function
- Oil-damped eject function
- Timer standby function
- LED level meter
- One-touch recording

Miscellaneous

Power Requirements
European model . . . . . AC 220V, 50/60 Hz
U.K. . . . . AC 240V, 50/60 Hz
Other destination models . . . . . .
AC 110V/120−127V/220V/240V,
50/60 Hz (switchable)
Power Consumption
European, U.K. models 10W
Other destination models 10W
Dimensions . . . . . 420(W) × 120(H) × 273(D) mm
16-9/16(W) × 4-3/4(H) × 10-3/4(D) in
Weight (without package) . . . . . 3.6 kg (7 lb 15 oz)

Accessories

Operating instructions 1
Connection cord with pin plugs 2

NOTE:
Specifications and design subject to possible modifications without notice due to improvements.

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